



BUILDING CONSTRUCTION SOLUTIONS

Aptella
AUTOMATION +
POSITIONING TECH

Why Aptella

We're there when you need us

With more than 30 years' experience in deploying intelligent positioning solutions, Aptella and its founding businesses have continuously broken new ground in the application of technology to enable safer, more efficient and more productive construction sites.

Aptella's expert team is unrivalled in the industry - our people are passionate about what they do and committed to supporting our customers whenever and wherever they're working.

With more than 350 employees across Australia, New Zealand and Southeast Asia, no other company can deliver the depth of expertise and boots on the ground support that Aptella has to offer. We source the latest and most advanced technology from leading suppliers worldwide, ensuring it is fit for the local market and assisting customers with training, service, calibration and support to suit their unique business needs.



Workshop services

Comprehensive product service, maintenance, repairs and advice are provided via our local service centres with manufacturer-trained technicians. We guarantee all our work and can supply calibration certificates if required.



Training

Our expert trainers are here to help you get productive immediately and enable you to take control of your digital jobsite. Our training is application specific and tailored to your industry, providing the perfect foundations to tackle any task or project.



Hire or lease options

A full range of systems, from laser levels through to machine systems and survey instruments, can be hired or leased to suit any application and reduce capital outlay. Get the flexibility to customise technology to suit unique site requirements.





All our know-how, in your back pocket

Tokara is a remote access service designed and developed by Aptella to give our customers unparalleled support and training in the field.

Support is only a phone call away

Everyone needs a bit of help now and then, and at Aptella we understand that when the pressure's dialling up on site, you don't have time to wait!

Tokara taps you into our nationwide support team in Australia, who have years of experience with this technology (quite a few have surveying degrees too).

We see what you see

Tokara enables us to remotely login to your field tablet so you don't have to explain what you're seeing. Our technicians can view your screen, update settings, provide training and troubleshoot technical problems to get you back up and working as quickly as possible.

✓ Manage designs on multiple devices from your computer.

✓ Fast support from our expert team.

✓ Tips and training on the job site.

POWERED BY

Aptella
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We see what you see

Our expert team of survey and engineering professionals can support you in the field using Tokara remote connectivity.



Digital construction set out solutions

Topcon LN-150 Series

3D Setout Instrument

The world's first 3D positioning system designed specifically for construction setout.

The first time you see it you know it's unlike anything you've seen before. Its clean, innovative design tells you that the LN Series is a game changer. The LN Series strips away complexity to deliver an easy-to-use tool dedicated to construction layout. The LN Series utilises Topcon's time-proven laser and robotic total station technologies to create a totally new tool that's easy to use, without sacrificing the accuracy and versatility demanded for all types of construction layout.

- > Interior building infrastructure
- > Foundations and footings
- > Utilities and general layout
- > Construction layout



Watch our animated video to see how it works



Got questions?

Watch our FAQ video for answers to common questions

Ideal for all building trades

Builders

Specific set out tasks? QA reports? Pre-pour formwork checks? Keep the project progressing on-time and to-design from in-ground works, through to completion and digital as-con reporting. Ideal for:

- > High-end residential
- > Commercial
- > Industrial
- > Multi-storey

Concreters & Formwork

Millimetres matter when setting out for the concrete pour! Do pre-pour checks to guarantee horizontal and vertical position to reduce rework. Set out accurately in 3D without stringlines:

- > Pad footings
- > Slab edges
- > Formwork decks
- > Step downs
- > Hobs
- > Plus any other element of your design!

Plumbers

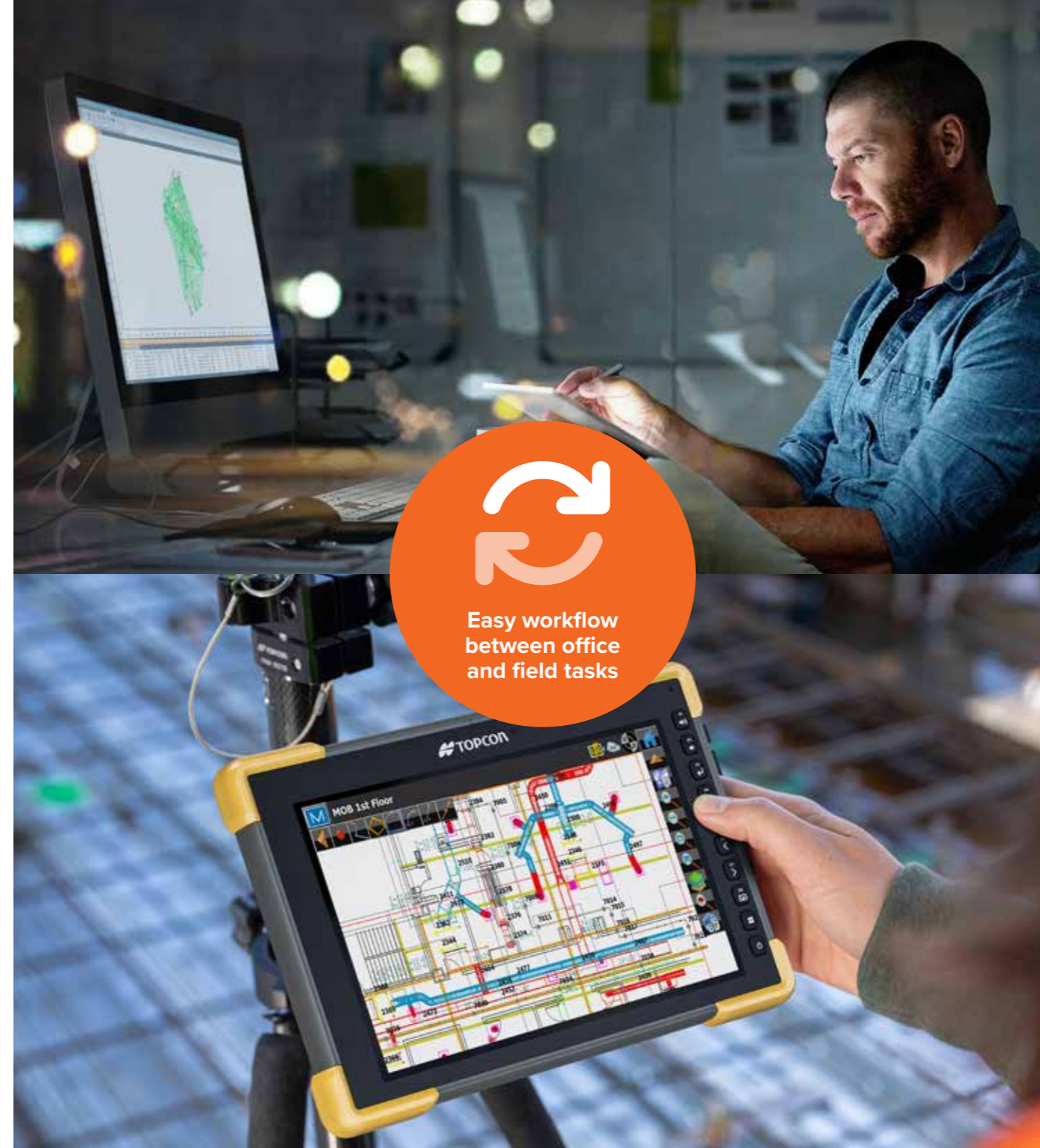
For in ground, complete deck work and penetration set out without profiles, stringlines or tape measures! Single person set-out for:

- > As-con pick ups before backfilling
- > Digital record of in-ground asset position
- > Positional pipe laying
- > Grade checks

Electricians

From large sub-division installation, commercial/industrial builds through to high rise deck work, both set out and as-con work are extremely important for the electrical trades.

- > Prove work was completed to design with digital records of in-ground assets
- > Land penetrations in the wall while setting out on an empty deck



Easy workflow between office and field tasks

Connected, user-friendly software

Topcon's MAGNET software makes setting up and running your projects easy. The interface is user friendly and intuitive, with step-by-step workflows that guide the user giving you confidence to set out and check your work accurately.

As a company with more than 30 years' experience with positioning and survey technology, Aptella will ensure your team has the training and support to get the most from your Topcon set out system.



Learn more about TOPCON



Proven results from Australian businesses

“ It improves all our accuracy of our set out on site and having the ability to constantly check work as you go rather than going back after something’s already been poured or something’s already been set out.

Robert
Cadet McNab Construction

“ I would say we’ve become anywhere between 50 to 80% more efficient.

Murray Burgess
Contracts Manager Kraftur

“ Before we got the Topcon system it was pretty chaotic on site waiting for surveyors to turn up and running stringlines all over the place. Now we don’t have to measure off gridlines and it’s a lot easier when we dig not having to use pegs. It’s pretty easy to use, only took me a day to get the hang of it.

Beau Baker
Site Supervisor Brady Contracting

“ It hasn’t eliminated the need for a surveyor we still need the surveyor to come on site and give us the grid intersections but what it has done for us is it means every day we can set up the LN-100 and provide points for every tradem, or ourselves. Basically, we can have a total station set up every day without the reliance on a surveyor coming.

Tony Mead
Founder of Meadson Construction



Positioning solutions

Topcon HiPer CR Site Receiver

Get precise centimeter-level accuracy effortlessly with this compact powerhouse, ideal for various survey and construction tasks. The HiPer CR is an ultra-lightweight and compact solution that minimizes pole weight, ensuring easy mobility and field usability. Despite its small size, the HiPer CR integrated helical antenna excels in challenging canopy and jobsite environments, delivering exceptional performance.



Topcon GT Series Robotic Total Station

The GT series of robotic total stations are a trimmed down, high-performance solution that's ready to impress today, yet still grow with you into tomorrow. You get the efficiency of a single-operator robotic system, the power of long range reflectorless measurements, and the ability to perform as a hybrid positioning solution. All in a compact system that's a third smaller and twice as fast.

UltraSonic technology is the driving force for the GT Series. You can see and hear the difference immediately. The UltraSonic motors are the fastest available in the market - at 180 degrees per second it's the smoothest and most accurate prism-tracking available.



Topcon GM-50 Series Reflectorless Total Station

The GM-50 Series was designed from the ground up to deliver the very latest technological advantages, all in a small, sleek design – you'll appreciate the advantages from the very first measurement.

- > Fast and accurate new EDM
- > Advanced angle accuracy
- > Long battery life – 14 hours
- > Rugged, waterproof design with IP66 rating
- > 500m long-range reflectorless measurement
- > Bluetooth® communications (optional)



Monitoring solutions

Omnidots

High Quality Vibration Monitoring

Are you concerned about the risk of vibrations causing damage to buildings and other structures? Monitor vibrations with the Omnidots solution! The “**SWARM**” vibration monitor, together with the cloud based “Honeycomb” web platform, provides you with insight to vibrations and helps you ensure that vibrations remain within the set limits. With Omnidots’ vibration monitoring solutions, you are in control of all your products, simply by using your smart phone, tablet or laptop.

Honeycomb webplatform

Honeycomb is Omnidots’ cloud-based web platform that provides access to your measurement data and SWARM settings without the need to install any software. With Honeycomb there is no need to physically configure the SWARM or retrieve its data at the construction site. You can reach Honeycomb 24/7 from any location, using your tablet, smartphone or laptop.

- > Wireless data transfer
- > Alert configuration
- > Remote SWARM configuration
- > Multi user
- > Customisable reports
- > Automatically generated reports
- > User friendly



Senceive Wireless Monitoring

Increase safety and quality assurance with accurate monitoring of structures, buildings and excavations during construction work. Senceive is a versatile and easy to use platform that can be customised to your project, offering continuous monitoring and tiered alerts to notify and mobilise response teams quickly and efficiently.

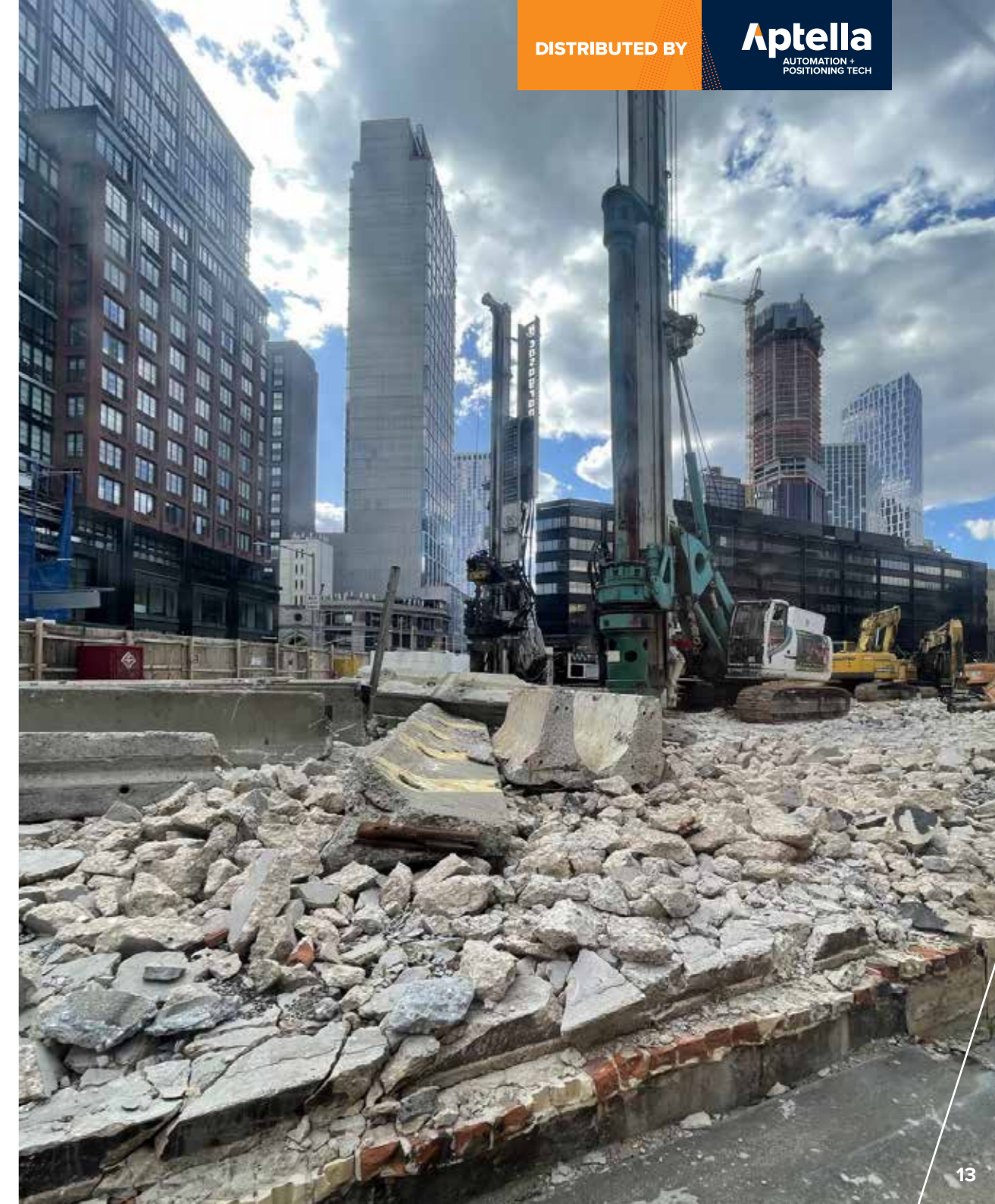
Senceive’s core benefit to customers is in providing:

Safety Enhancing

- > Keep all workers and contractors safe
- > Reassure key stakeholders with access to dashboards and reports
- > Meet QA and reporting requirements

Minimal Whole Life Cost

- > Same units re-usable for multiple applications
- > Operational battery life of 12-15 years
- > Maintenance and calibration free
- > Reliable and proven over many years in field



Laser levels

Topcon RL-HV2S Premium With LS-100D

Get a laser level that is up to every job with the Topcon RL-HV2S dual grade tool. Packed with features and Topcon's signature precision and reliability, the new HV series won't let you down.

Ideally suited to more complex earthmoving and levelling tasks, the RL-HV2S can handle single or dual slope tasks up to $\pm 5\%$, or even $\pm 15\%$ with the addition of a tilting plate. Turn it on its side and use it for layout and alignment jobs.

- > Long-range operation (800m)
- > Slopes up to $\pm 5\%$ ($\pm 15\%$ with tilting plate) can be used in either the X or Y axis
- > Horizontal, multi-slope and vertical applications
- > Tough IP66 construction rating
- > Topcon tough design with 5-year warranty and unparalleled accuracy



Topcon RL-H5A Premium With LS-100D

The RL-H5A is the self levelling, accurate, reliable, multi-purpose construction laser produced by Topcon Laser is accurate and reliable long-range, multi-purpose construction laser level. Ideal for a broad scope of applications such as grading, drainage, site set-up, excavation, drainage, concreting, earthworks and general construction, the Topcon RL-H5A laser is incredibly versatile.

- > Long-range operation (800m)
- > Simple, intuitive manual slope capability
- > Tough IP66 construction rating
- > Automatic height of instrument alert (elevation alert)
- > Topcon tough design with 5-year warranty and unparalleled accuracy



Topcon TP-L6 Pipe Laser

Topcon's TP-L6 Series Pipe Lasers offer a combination of features and technology that are proven to meet the demands of contractors more than any other alignment lasers on the market. With a new compact design the Topcon TP-L6 can be used in even the tightest of pits. Available in economical red beam or high visibility green beam, the new Topcon pipe lasers come with better than ever battery life to keep you working.

- > -15% to +40% grade capability to suit every job
- > Self levelling so you know you are working accurately
- > Left/right beam line control
- > High-contrast easy-to-read display panel
- > Increased beam clarity & brightness available in red or green beam
- > Topcon tough design with 5-year warranty and unparalleled accuracy



Topcon DT-309 Advanced Digital Theodolite

With the DT-309 you'll be up and working fast, thanks to its simple interface and large, easy-to-see backlit LCD. There's an optical plummet that makes set up over a control point easy, and a tilt sensor that provides ± 3 minute angle correction. The DT-309 Series features two magnification choices of 26x and 30x, a super-short 3 ft. minimum focus distance for those tight areas, and angle accuracies of 5, 7, and 9 arc seconds.

- > High-accuracy measurements (5", 7" and 9" models)
- > Compact and light weight
- > Easy-to-use LCD backlit display(s)
- > Tough IP66 construction rating
- > Precise laser pointer guidance
- > Embedded tilt sensor for 5" and 7" models
- > Topcon tough design with 5-year warranty and unparalleled accuracy



Machine control

Topcon Machine Receivers

The LS-B Series of machine-mounted laser sensors are affordable grade indicate systems designed to improve grading and excavating production and accuracy.

Easy to use with fast setup, these depth control sensors can be mounted to your earthmoving machines in minutes. Attach any of the LS sensors to a piece of equipment, turn it on, bench in, and go to work. No more waiting for a grade checker or jumping off a machine to check your own grade.



Topcon MC-Mobile

Topcon has combined key technology from surveying and machine control to increase efficiencies, while reducing wait times and staffing needs for your small and mid-sized jobsite projects. MC-Mobile equips you with everything you need to perform layout and in-field design to build your jobs and to verify the results.

Displays and other components are designed to be easily shared across numerous machines in owned or rental fleet environments. These pieces can also be moved from grade checking/layout rover pole to machine and back



Learn more



iDig

iDig is the world's best portable 2D Machine Guidance System for excavators. With wireless, solar powered sensors and a "Clip in – Clip Out" touchscreen the iDig can quickly be moved from machine to machine, offering accurate guidance for multiple attachments on a wide range of jobs, all with one system.

- > 2D depth, height and reach with Single and Dual Grade Guidance
- > Depth and Alignment Guidance for Auger Drill attachments
- > Intuitive with built-in help menu
- > Tilting Hitch or Bucket and Blade upgrades available



Accessories



Tripod Wood Heavy Duty Circular Head

Lacquered, high-quality wood with special oil to protect the wood from humidity and water

- > Expands less than metal tripods
- > Handles the same as an aluminium tripods



Pole RTS Topcon Telescopic Carbon Fiber Prism Pole

- > Comfortable grip in low temperatures
- > Tip made of hard metal
- > Indestructible scale written with patented laser engraving.
- > Locking Feature at 1.60m, 1.80m, 2.00m and 2.20m to secure heavy prisms or GNSS antennas



Mini Stakeout Pole Fluro Yellow

Mini stakeout pole for surveying and construction applications

- > Measures 0.39 m
- > 5/8 x 11 Threads



Bipod Thumb Release Construction Series Yellow

- > Set up a freestanding GPS antenna pole or prism pole 1-to-1.25-inch (25.4-to-31.8 mm) OD
- > Poles attach easily through the open clamp 1.5 inch (3.81 cm) OD poles can be loaded through the top
- > The legs extend to 6 feet (1.8 m) and collapse to 43 inches (109 cm)



Myzox R-360 Mini Prism Dmp-9mini Pole Set & Bag Kit

- > Repairable 360 degree mini prism
- > 6mm thread screws on top and bottom
- > Prism constant = -4.4mm (+30mm Leica)
- > 360 prism allows for long range acquisition
- > Prism height of 100mm when used with DMP-M675 shoe (included)



Center Punch Point Hardened Steel Point

- > Fits all poles or products with male 5/8 x 11 threads
- > Will mark all metal and non-metal surfaces



Marksman XY-010 Portable Surveyors Tripod

- > Accurate hands free targeting
- > 5/8 x 11 thread for rod point
- > 2" rubber comfort grips



Tablet Ram Mount Kit FC & SHC

- Custom lightweight option for pairing the Topcon or Sokkia tablet with a GNSS or robotic total station solution.
- > Secure mounting
 - > Fits standard 1.25" diameter survey pole
 - > Suites FC5000, FC6000, SHC5000 & SHC6000



CTP1-A Prism Construction Series

- > -7mm prism constant
- > 5/8x11" female threaded posts on top and bottom of the prism
- > Supports various quick mechanisms on tribrachs and other accessories



Z-360EH

- > 0mm prism constant
- > Inbuilt hybrid adapter
- > Replaceable prism glass
- > Ruggedised body



Super Heavy Bag For Tripods

- > Suits SECO, Tri-Max, and Nestle tripods
- > Measures 121.9 x 20.3 cm



Protection Bag For Prism & Range Poles

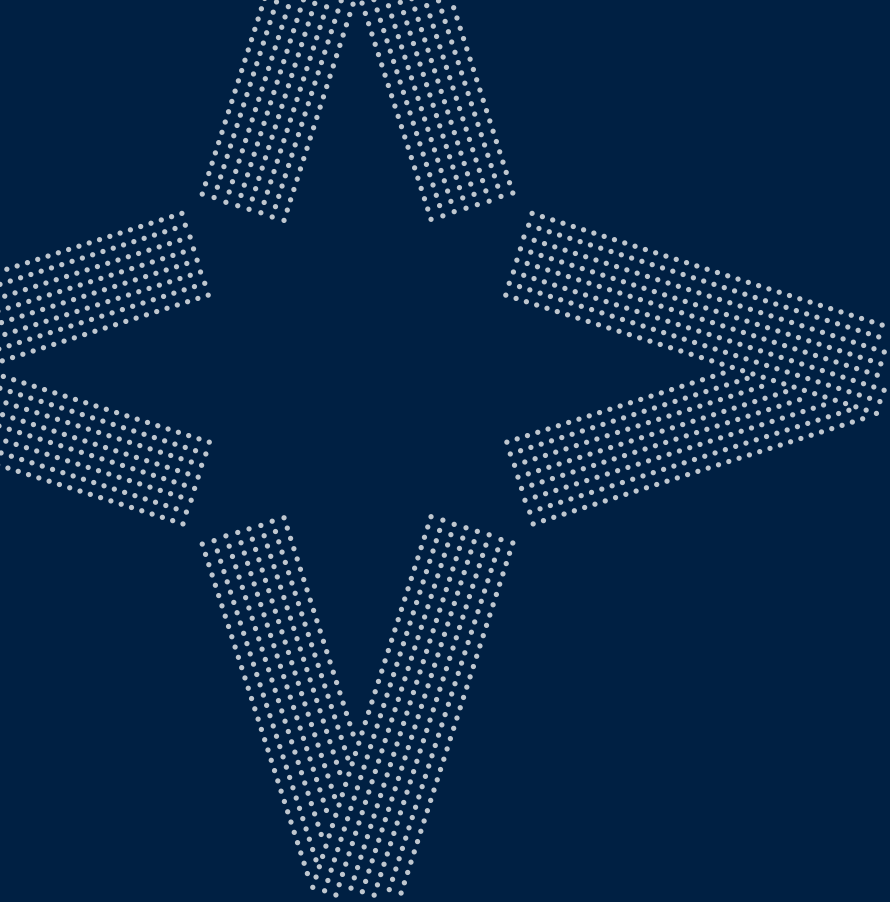
- > Protects from dirt and moisture
- > Suits all SECO and Nestle poles
- > Measures 156.2 x 15.2 cm



Toughpad FZ-G2 Tablet Computer



Protective Case With Insert



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➤ SOLUTION READY

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